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such great vicissitudes from a thousand Accidents,
that Diseases which are always so much influenced
by ~~these~~ these circumstances, put on different
Appearances in almost every Age & Country.
I would not pretend to say that the Disease ^{ch} w: is
designed as the Subject of the following pages was
entirely unknown to the Ancients. Some of them
have dropped a few Hints which give us Reason
to suppose they were acquainted w: it; th but what
they have said tends so little to explain the
Cause, ~~to~~ or to point out a rational Method of
curing the Disease, that we should receive but
little Assistance from ^{copying} ~~compiling~~ their Sentiments
upon this Subject.

Among modern Authors this Disease
is distinguished by the name of the Bilious or

[Faint, illegible handwriting on aged, yellowed paper. The text is written in a cursive script, likely from the 18th or 19th century. The paper shows signs of wear, including tears and discoloration.]

3

Yellow Fever. Some have pretended to point out
a Difference between these two Fevers, & to prove
that they depend upon Contagious specifically
different. But I hope we shall be able to
show hereafter that they are both one, and
the same Disease, & that their Difference con-
sists in their Degree Only. — I shall therefore
in the following Dissertation consider them
as One Disease & treat them as such. a
skillful Physician will always know how to vary
his Method of Cure according to the greater or lesser
violence of the Disorder.

we shall begin by describing the most ordinary
Phenomena which occur in the Course of the
Disease.

It generally appears About the middle of Summer

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4
or Beginning of Autumn, & ceases to rage
upon the Approach of Winter. As soon as a
Patient is seized with the Disease he immediately
feels a Prostration of Strength - great Anxiety - in-
tense pain in ^{the} Head - Coldness & Shivering.
These Symptoms are quickly succeeded by great heat -
a burning sensation about the Praecordia - a
dry - reddish - florid or black Tongue - a hoarse
shrill voice - immense Thirst especially for
cold subacid Drinks. - The Lips & Teeth are
covered with a black kind of Cordes. The Respira-
tion is difficult & laborious. The Urine has
various Appearances. Sometimes red - black
& in many Cases bloody. The Pulse in the
Beginning is full & tense, but after a while

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becomes small - weak & irregular. The Patient
 complains of a bitter Taste in his Mouth -
 tosses himself in his Bed from side to side without
 being able to rest long in any Posture. he feels
 a violent fixed pain about the Praecordia
 which is always increased upon being pressed.
 - The whole Hypochondriac Region is ^{sometimes} swelled &
 hard. The Patient nauseates Food, & vomits
 up every thing he takes together with large
 Quantities of green, & sometimes blackish
 Bile resembling Coffee grounds. The Eyes
 are inflamed - of a yellowish colour. & often
 suffused with Blood. The Bowels are sometimes
 bound & sometimes Open. The Face & whole

[Faint, illegible handwriting in cursive script, likely a letter or manuscript page. The text is written in dark ink on aged, slightly discolored paper. There are several lines of text, with some words appearing to be underlined or emphasized. The handwriting is characteristic of the 18th or 19th century.]

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6

Skin are tinged of a yellow colour which in
Progress of the Disease is changed to a livid
Grey. black Spots begin to make their appearance
about the neck & Breast. the Blood is now poured
forth in a thin dissolved state from the Nose
Mouth, & urinary passages, & is sometimes
~~black & bloody~~ mixed with black bile; the
~~face & hands~~ ejected in vomiting mixed with black bile; the
Hands & Feet now begin to grow cold. a Delirium
comes On, & sometimes a Syncope. ^{Spasms}
begin to trouble. the Patient now feels no
Pain, & sometimes on a sudden recovers
from his Delirium. But at Once he is seized
with a Subultus Tendinum or ^{Convulsions} ~~Spasms~~ in dif-
ferent parts of the body, or general Convulsions
which for the most part close the moving Scene,

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I put an End to his Life. —

It must not be imagined that this History belongs to all the different Degrees of this Disor. — perhaps the Symptoms are seldom found to occur exactly in the Order we have described them. There is nothing more difficult in Medicine than to give a complete History of a Disease, nor will this Difficulty ever be removed till we are able fully to collect all the Species & varieties of Disorders & to arrange them under proper Genera & Orders. by this means we shall be able to distinguish Diseases by those Marks Only which are truly pathognomonic, & that too in a few words.

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many of the symptoms however related in
this history belong only to the Bilious Fever,
and are to be met with in no other Disease,
such in particular are the violent pain about
the Praecordia - the constant vomiting, & the
yellow colour of the skin when joined with ~~low~~
Fever. These will serve to distinguish it from
all the Cases of nervous - Inflammatory - and
petechial Fevers. The last mark affords a
sure Diagnosis between the Bilious Fever &
the Jaundice. —

There is One Disease which is often confoun-
ded with the Bilious Fever viz: the March or
Camp Fever so accurately described by Sir
John Pringle in his ^{Treatise on} Diseases of the Army.
This Disease often alternates th w: the Dysentery,

* See a note in Sir John Pringle's Dis-
-eases of the Army. p 205.

& appears to be the same Disease only diversi-
 -fied by the greater or lesser Moisture of the wea-
 -ther. it depends on an Obstructed Perspiration,
 which when effused into the Intestines, & mixing
 with the Bile constitutes the Dysentery. The
 Discharge of Bile in this Disorder is only ^{an} accidental
 Circumstance, & does not always attend, especially
 in the manner, or in the Degree we have taken
 notice of in the Bilious Fever, nor does the Patient
 complain of ~~that~~ any remarkable pain or
 burning about the Praecordia. I will not
 however say, but what both Diseases may
 have been originally the same. Their Difference
 may be entirely owing to the Influence of Climate
 & other Circumstances upon them. Dr. Keck seems
 to be of this Opinion. * The Camp as well as Bilious Fever
 in time becomes a contagious Disease. —

* See Sir John Pringle's Diseases of the Army page 82-3

+ Ibid: page 83. —

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on

The causes which ~~produce this Disease~~ are

~~Heat joined to~~ favour the Operation of ^{this Disease,}

the Contagion which produces ^{are the same} ~~being on a Predisposition~~ to Other malignant Fevers, such as

- 1st Heat joined with Moisture 2nd very calm weather.
3rd the intense Heat of the Sun continued for some
time. 4th great Quantities of Animal Food.

This so much disposes Persons to be affected with
contagious Diseases of all kinds that the Reason
why the Plague & Other pestilential Disorders
prevail so much less now, than they did a
hundred ~~the~~ Years ago, has justly been attributed among
Other causes to the greater use of Vegetables
in Diet than formerly. — 5th Intemperance
of all kinds by weakening the Energy of the

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Sensorium favours the action of Contagion upon
the System. This Disease is called by the French

"La Fièvre Matelotte" ~~upon their arrival~~ ^{because} ~~of the~~
sailors in the West. Indians ^{are} ~~being~~ so very subject

to it. This ^{may} ^{be} easily accounted for when
we reflect, how very apt sailors are above

all men to drink to excess, & to be guilty of
most kinds of Intemperance. 6.th all high seas
-soured Food - profuse evacuations & violent exer-

cise of the body tend to increase the sensibility of
the system, & thus render it more liable to be
affected by the Contagion. But 7.th there is nothing

which predisposes more to this Disease than
those Passions of the mind which are properly

called Sedative, more especially ^{Grief &} Fear. in what

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manner they operate it is not our Business to ex-
plain. But the ^{they} Effects ~~induced~~ are entirely
analogous to the ^{Effects of} Causes we spoke off before. it
is owing to the Debility induced upon the System
by these ~~Papions~~ ^{near} Relations & Friends of
Persons who are seized with this Disease are
more ~~apt~~ to be affected with it than Others. This
explains to us likewise the Reason why the
Plague & all other contagious Diseases make
greater Havock at their first Appearance in
a City or Country than ever they do afterwards,
as People ^{become} ~~are~~ gradually so used to them that
their Fear after a while in some measure
subside. —

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It is to be wished ~~to be wished~~ we could assign
 the Proximate Cause of this Disease as easily
 as we have ~~assigned~~ the predisposing. ~~Cause~~. Nature
 who seems to have delighted in simplicity in
 her other works, has wrapped herself in a veil
 in the Animal Economy, & concealed her
 more secret Operations from ~~of~~ our view.
 we no sooner begin to investigate them, than
 we are at once lost in a circle of causes & effects.
 - these Difficulties occur with peculiar Force in
 our Inquiries into the proximate Cause of the
 Bilious Fever.

It would employ too much time to here
 to recount all the Opinions that have sub-
 -sisted among Physicians upon this subject.

~~Quodvis fons singulis, & quodvis fons singulis~~
~~et quodvis fons singulis.~~

* ut Bilis Putrescentiam examinarem
in unam Phialam infudi Bilis recentis Sernun:
ciam, cum Aqua fontana Sesquiunciam, &
in Alteram Phialam infudi Carnis, ex eodem
animali, recentis, et in pulpam contusa
Drachmas duas cum Aqua fontana Unciis dua:
bus. Utramque Phialam apertam repositi in
Hypocausto, ad Calorem Hominis sani calispe:
to. post Horas sex, Caro Odorem summe feten:
tem cadaverum non ~~h~~ praebebat, Bilis vero Odor
nequaquam mutata fuit, & non nisi post Horas qua:

I shall only hint at one or two of them.

13

For a long time this Disease was supposed to have its seat in the Bile upon the Aut. of acrimony. ~~and~~ Opinion that it was more disposed to Putrefaction than any of the Other Humors of the Body. But we have ^a direct Experiments that prove the contrary of this Doctrine to be true. nor can we attribute the Disease to an increased Secretion of Bile any more than we can the Small pox to the profuse spitting, or the Hysteria to the immoderate Flow of Urine which generally take place in those Diseases. I am so far from thinking that it depends upon a morbid Acrimony of the Bile, that I rather imagine the Acrimony ^{of this fluid} is considerably diminished. all

= draginta Otto, Odorum velut Moschi exspirabat.

Dr. Ramsay's Inaugural Dissertation
"de Bile" Liber: XXV.

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secretions we know become acrid by Stagnation,
from their fluid parts being reabsorbed & carried
into the Circulation. Now as the Pile is
discharged in such large Quantities as
soon as it is secreted, it has not time to
acquire even that Degree of Acrimony which
is natural to it. I know many Physicians
talk of Matter being thrown up so acrid
as to corrode the Oesophagus & Fauces.
But I am apt to think there may be
some Fallacy in this Observation. The re-
peated Efforts of vomiting may inflame those
Parts so as to render them more sensible

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to the Stimulus of the Bile, & may thus bring
on a great deal of pain. for my part I have
Often stood by Patients in the Act of vomiting
in this Disease, & yet never heard them complain
of any thing like that corrosive pain some
Authors speak of. —

An Opinion of later Date, & now more
universally received, is, that it is owing to
a putrid Ferment introduced into the Blood,
which has the power of assimilating it to
itself, & thus bringing on a general Putre-
-faction. This notion was originally derived
from Galen. ~~who has since been followed by~~

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~~"But as to the Copiousness of the~~
~~complete Natural Metabolism" - the~~ Doctrine

was readily adopted by the Chemists - They
 considered the human Body in the same
 Light they did their chemical Expts, and
 imagined that the same Processes were car-
 ried on there by Means of Menstrua -
 - Ferments & Registers, which they saw every
 day in their Operations, entirely forgetting
 the Animation of the human System which
 influences all its Operations in such a Man-
 - ner as to render it difficult to illustrate
 any of its Functions by Analogies borrowed

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from other parts of nature.

This Opinion Although supported so much by analogy will appear very improbable when we consider

1. In all cases of Putrefaction by means of Fermentation we see an entire Change of Properties produced. a total Decomposition ensues,

& the new Product retains none of ^{the} Properties of the former Matter. But we see nothing of this kind take place in putrid Fevers. The

Blood is only dissolved, or its component parts mixed, but no new Change is induced in its Nature & Properties.

* Juvenula in Febre continua putrida re-
-gluta prorsum, nullam Annino Artis Opem
experta, Die undecimo Morbi ad nos deferatur,
toto pectore, colloque Anteriore plurimis
Petechiis secatens: Morbo ut illa retulit
quotidie aucto; nullam ut nos judicare debui-
-mus, sui Coctionem praebente. Sanguis ipsi
tunc missus, in vasculo primo, et tertio Crusta
phlogistica tectus erat, universaque in
rubra parte compactissimus. Duodecimo
Morbo Die repetita Venae Sectio, crustam dedit
hesternā densiorem. Ergo nec 12 Dierum Diutur-
-mitate, nec centenarum Petechiarum Inruptio:
-ne Sanguis Inflammatoriam suam Spissitudinem,
sive Cruditatem amiserat. vol 11. page 162

2nd we often see all the Symptoms of a putrid
Fever arising from contagion, & yet the Blood
so far from being dissolved retains an Inflam-
matory crust. a remarkable Instance of

this may be seen in the works of the learn-
^{Professor} ed Dr De Haen of Viennath
for the most part

3rd ~~repeated~~ Ferments, begin to act as soon
as they are applied to the Bodies on which they
are designed to Operate, & generally Observe a
uniform regular time in their Action, but No-
thing of this kind is Observed wth Regard to the
Contagious we are treating off. it sometimes
lies ten or twelve Days before it excites
the Disease, & sometimes brings it on at

re-
Chem
tur,
is
bui:
hsi
usta
dit
atur:
tio:
mem,
162

* See Dr. Lind's Treatise upon Fever & Infection
page 62

Once. * in these Cases surely no Fermentation
 could have taken place. the Patients mentioned
 by Dr Lind were seized the moment they recei-
 ved the Contagion. Sir John Pringle mentions
 several Instances of Soldiers who were seized
 in a manner equally sudden with these
 men. Although he does not tell us they
 perceived any Smell at the time. But it
 is highly probable these Symptoms could arise
 from nothing else, but the immediate action
 of the Miasmata or Contagion upon their
 Nervous Systems. ~~Contagion~~ these Differences in the time
 in which the body is affected, may easily be
 accounted for by having Recourse to the diffi-
 rent

* Physical & literary Gray of Edinburgh
vol. 11.

Degrees of Sensibility in different Constitutions.
 - for the Disease always appears to be in a Ratio
 compounded of the Sensibility or Predisposition of
 the Patient, and ^{the} violence of the contagious
 matter applied. -

4th ~~we know~~ ^{we know} Ferments act uniformly on whatever
 Bodies they are applied to, but Contagion we
^{see} ~~never~~ does not. we often see Persons exposed
 to it, for Months & Years together, without catching
 the Disorder. Dr. Lining tells us, that the Negroes
 in Carolina were never subject to this Disease,
 altho' they were constantly exposed to it. Physicians
 & Nurses ~~often~~ ^{generally} ~~escape~~ escape it, not:
 - withstanding they are so ~~much~~ conversant

with it. What can this be owing to? - per-
 -haps we shall be able to show hereafter, that
 it depends upon a less irritable nervous system,
 on which the contagion appears principally to
 act. in the former case the negroes from
 being obliged to work so much in the
 open air, & in a degree of heat often beyond
 that of their own bodies, had contracted a
 kind of Insensibility to the Impressions made
 by the contagion; & in the latter case the Abuse
 of Fear, which we mentioned as a chief pre-
 -disposing cause, & the Force of Habit tended
 to render the contagion ineffectual. it is
 a common Remark that Strangers only

[Faint, illegible handwriting in cursive script, likely a historical document or letter.]

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are subject to the Yellow Fever of the West Indies, &
 upon this is founded the Distinction, which some
 make between the Bilious & Yellow Fever. but
 the latter is only a higher Degree of the former
 Disease, & arises from Strangers having the
 Sensibility of their Constitutions greatly en-
 creased, upon coming ~~from the~~ from a tem-
 perate to a warm Climate; which disposes
 them to be affected not only sooner than the
 natives, but in a much higher Degree. we
 find moreover, that these Diseases naturally
 propagate each Other. I have seen Persons
~~in affected from a Yellow Fever which has been~~
~~in affected from a Yellow Fever which has been~~
 in so slight a Degree, ^{from a yellow} as to recover

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Fever ^{is} proved fatal in a few days.

without ever being in the least Danger; & on

the contrary I have seen the most mild bilious
Fever, produce ^{Other people such a} ~~it~~ in ^{One} malignant ~~fever~~

~~in the~~ ~~People~~, as to terminated shortly in
Death with all ^{formerly enumerated} the dreadful Symptoms ~~which are mentioned~~
~~as being~~ ~~fatal~~. This in my Opinion is

an irrefragable proof of their being the same

Disease. how differently do we see ^{the} same Con-
tagion operate in the small pox, producing in

some the most favourable, ^{distinct} & in Others the most

^{dangerous} confluent pox! yet no One will pretend to

say that there are two specific Contagions in

this Disease. in both cases the lesser or greater

Degrees of the Disease depend ^{chiefly} upon the

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Predisposition of the Patient. I have preferred the Term Bilious, to that of the Yellow Fever, as the yellow colour is a mere accidental circumstance, & does not appear for some ^{first} Days after the Attack of the Disease. The Dis-charge of Bile is in some Measure a pathognomonic Symptom, & is inseparably connected wth the very nature of this Disease.

5th The Blood is renewed every two or three Months in so much that none of its former parts remain. Now ^{as} if this is the Case, if it was the Seat of any putrefactive process, why should it not be a second time subject to Diseases depending upon it? — we know

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of ^{but few} ~~no~~ well attested facts of Persons being seized twice in their Lives with contagious Diseases, especially if they had them to a pretty high Degree.

6.th Even supposing a Ferment did act upon the Blood so as dissolve it, yet this would not ^{be} ~~be~~ for the Phenomena we see attending this Disease, for we often find a dissolved state of the Blood, & yet no Fever attending it, as in Scorbutic & Hypertic Patients, & in Persons under a Salivation. nor does a dissolved state of the Blood by any means ^{imply} ~~imply~~ a propensity for a Fermentation ~~or putrefaction~~ ^{imply} preceding; as we sometimes see it take place in febrile Diseases, such as the Pleurisy & Pneumony.

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in which no One can suppose any thing like
a Ferment introduced into the Blood.

7th In Order to support this Doctrine of a putrid
Fermentation we are told that the Blood of
Persons in hot Climates is much warmer than
the Blood of Persons in cold Climates which dis-
poses it more readily to Fermentation, &
hence putrid Ferments act more easily upon
it. But this Supposition is entirely without
Foundation. the Blood of every Person in a healthy
State retains the same uniform Temperature in
all Countries, even in those, where the Heat of the
Atmosphere is 20° or 30° Degrees above the
ordinary Heat of the Body. -

8th Much has been said of the fetid Smell

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which attends this Disease as an Argument in
 Favour of Putrefaction: But I believe ~~that~~
~~it is~~ ~~not~~ without any Foundation. for
 my part, I have often seen this Fever in its
 last Stages, & yet never perceived any smell
 peculiar to it. ~~because of the~~ ~~same~~. There is
 nothing more common than to describe
 the History of a Disease from ~~as~~ some
 preconceived Notion of its Cause. M. de
Sauvages takes Notice of this Source of Error
 in Medicine. I shall beg leave to transcribe
 his own words upon this subject, as they apply
 directly to what we have been advancing.

" Dolendum est quod nullus Auctor, ut Ob.

" servat Stahlius, Febrium Species distinguit,

" A
" M
" B
" C
" D
" E
" F
" G
" H
" I
" J
" K
" L
" M
" N
" O
" P
" Q
" R
" S
" T
" U
" V
" W
" X
" Y
" Z

" nisi ex ~~procepto~~ preconcepta, Putredinis &
 " Malignitatis Opinione, ita ut Individuas
 " Observationes comparatas ad suam Speciem,
 " imo ad Genus referre, difficillimum sit: hoc
 " exinde factum est quod nullus Auctor Histo-
 " riam Morbi ~~supponat~~ ab ejus Theoria Philo-
 " sophica, & semper Causam cognatam suppo-
 " nat, atque exinde signa Characteristica deri-
 " vare contendat, quo more nihil pejus in
 " Re medica. — Nosolog: vol: II. p. 239

But allowing a Fator to take place in this
 Disease, it by no means proves a Putrefaction
 of the Fluids. ~~but~~ there is no Symptom
 more Observable in the Scuroy than ~~the~~^a fetid
 Smell. This has long been supposed to proceed

* secundum mea Experimenta me convincere
de vera Putredine, etiam nondum Alkalina
in vivente Corpore Animali. in tot morbis
putridis etiam conclamatis dum Sanguis
venâ tuâ ductus aut aliunde affluens
examinatus, nunquam ne in peccatis
quidem variolis Putredinis signa vel muni-
-ma mihi dedit. Vol: k: p: 172.

Il seroit sans doute bien singulier
que des Malades, auxquels on a Observé les
Marques les plus complètes de cette prétendue
pourriture, pussent non seulement en
échapper, mais encore jouir peu de tems
après de la Santé la plus parfaite. Combien

from a Putrefaction of all the Animal Fluids.

But this is not the Case. was this a proper
 plan we could prove it from a variety of
 Arguments, & show that the Disease proceeds
 entirely from an excessive Quantity of an Am-
 -moniacal Salt in the Blood. The Odor of Bodies
 is so much influenced by their modes of Aggregation,
 that we may easily conceive of the Fluids emitting

a peculiar Smell without having Recourse to Pu-

trifaction. ^{the ingenious Dr. D. Haen who has enriched}
^{medicine with so many useful Experiments de-}

^{claims if he never found any traces of Putridity in those}
^{few which are commonly called putrid}

After having raised these objections

to the Theory of Putrefaction it will be
 expected that I should assign some Other
 proximate Cause. I wish I was able to do
 do. but such is Our present confined State of

de Gens d'ailleurs ont l'haleine si puante
qu'on n'ose les approcher, & d'autres dont
les sueurs & la transpiration ont une
Fétidité qu'on a de la peine à supporter,
& qui ne laissent pourtant pas de jouir de
la meilleure Santé? - Osera-t-on dans
cette circonstance, que leur sang est cor-
rompu? Combien de substances ne
connoît-on pas parmi les végétales, les
animales & les minérales, qui exhalent de
leur nature une Odeur des plus désagréa-
ble? Pourquoi les liqueurs vivantes ani-
males ne pouvant-elles pas prendre ce Carac-
tère très-indépendant de la putréfaction,
dont on sçait que les Effets sont la Destruction
totale du Mote sans retour? L'entrainé, presca
de la Médecine. p. 21

*Hujus enim loci sunt Pontagiones quarum
virtute velut genitali id genus morbi suam
speciem propagant, & communicata Multi-
modis labe per Homines grassantur. agunt
estate, & virulenta potestate, & suo quaque
modo sibi proprio, & in alias atque alias
Corporis partes, Effetusque Statusque quidem
at longe diversissimos produciunt. unde con-
stat, uti Origine, ita naturis, magnopere
inter se discespare, et suas singulis indites-
cere certas vires, quibus, cum per congruas
vias in Corpora devenerint actioni faventia,
suam quolibet morbi Formam distinctam
constanti lege haud aliter procreant quam
plantarum, Animaliumve Semina,

Seasons, & on different Constitutions? - or are
 there are so many different Species of it?
 - if we attend to the most common Occa-
 sional Cause of these Fevers viz putrid Eman-
 -lations or Animal Effluvia we shall be
 inclined to the first Opinion. But When
 we reflect that these ^{Miasmata} ~~Contagions~~ act uniform-
 -ly on all Constitutions which they affect, & in
 all Seasons of the Year, we are led to ~~believe~~
 believe the last Opinion, especially when we
 add to this that Persons who have had One
 of these contagious Diseases are not exempted
 from the Others. *

2^d Is it not more probable that the Contagion
 affects the Solids primarily rather than the

aptis concepta locis, in suam singula de-
-terminatam Speciem evolvuntur.

Garbii Pathologia
§498. —

de. Solids? & do not the Fever - the Debility w.^{ch}
 attends it, & the Impossibility of the Patients
 being seized a second time with ~~it~~ it, all tend
 to favour this Supposition.

3.^d May not the dissolved State of the Blood
 arise entirely from Debility in the Solids induced
 by the Sedative ~~the~~ powers of the contagious
 matter, especially as we always find it propor-
 = tioned to this Debility? It may not the Hæmor-

= rhages which sometimes attend these Fevers,
 be rather the Consequence of a preternatural
 Relaxation of the Solids than of a putrid Acri-
 = mony introduced in the Blood?

4.th It has long been a Problem in Physic

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Why Persons are Subject to contagious Dis-
 eases but Once in their Lives. Some have
 supposed it was owing to the Blood being but
 Once capable of undergoing the Fermentation
 induced by the several Contagious. but this
 will appear very improbable, if we attend
 to what was said before, of the Blood being
 renewed every two or three Months. Others
 again have resolved the Fact ultimately
 into the Will of the Creator, & have thus
 checked at Once an Inquiry of the utmost
 Consequence in Physic. But this mistaken
 Generation has done no less Injury to the Pro-
 gress of Science in every Age, than it has
 detracted from the Honour of the Author of

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Nature. the more minutely we push our
 Inquiries into the works of Nature, the more
 evident Traces we find of the wisdom of the
 Deity, & this wisdom is displayed no less in
 efficient, than in final causes. — I shall
 therefore attempt a Solution of this Question.

The Force of Habit is well known in our
 System. all the Organs of Sense are liable to
 Sensations from Impressions communicated
 to them by external Bodies. these ~~Impressions~~ ^{Sensations}
 are more or less acute, as the Impressions
 have been more or less continued. a Man
 who has long been accustomed to study in
 a Place adjoining a Smith's Shop, or the street,

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35
is deaf to the noise of the Hammer or Chandel
which at first disturbed him, but hears at Once
the softest Notes of Music, or even a Whisper
in an adjoining Room.

a delicate Lady who has long been in a
Habit of taking Snuff in large Quantities,
without feeling perhaps the least Irritation
upon her Nose, is thrown into convulsive
Fits by the Smell of Musk - Ambergrease or
even a Rose. -

a Person who has long been used to chew
Tobacco, feels none of those Sensations excited
on his Tongue, he did the first day he took it
into his Mouth; but if any thing of a different

117
The first of the month of June
I received from you a letter
of the 25th inst. in which you
informed me that you had
received from the Secretary of
the Navy a letter of the 20th
inst. in which he informed
me that you had been
appointed to the position of
Assistant Secretary of the
Navy. I am very glad to
hear of this and hope that
you will find it a most
interesting and profitable
employment. I am, Sir,
Very respectfully,
Your obedient servant,
John C. Smith

118
The first of the month of June
I received from you a letter
of the 25th inst. in which you
informed me that you had
received from the Secretary of
the Navy a letter of the 20th
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employment. I am, Sir,
Very respectfully,
Your obedient servant,
John C. Smith

Nature, with the least Degree of Acrimony is applied to his Tongue, he immediately feels the same Sensations excited on it, that a Person does who never chewed Tobacco in his Life. - Instances of this Nature might be multiplied without Number. —

We before aimed to prove, that Contagion was nothing but a Stimulus applied to the Nervous System which induced an increased Action of the Vessels. if this is the Case, may not each Contagion leave the same State of Insensibility upon the Nerves which we find the several Impressions Aforesaid, leave upon each of the Organs of Sense? I know it will.

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be objected here, that the venereal Disease
 & such are received as often as we are exposed
 to the Occasional Causes of them. to this I
 would answer, that these Diseases appear
 to be less connected with the Nervous System,
 & this I take to be the Reason, why they are
 never attended with any Fever, except when
 it arises from topical Inflammation. the
 infectious Matter moreover is in a fixed
 state, & hence exerts a more partial stimulus.
 — If Camphor, or Musk, when wore around
 the Neck ever secure Against contagious ~~not~~
 Diseases, it must be by exciting a stimulus
 on the Nerves, & thereby rendering them less
 sensible to the Stimulus of Contagion. In

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Sydenham tells us that ~~the~~ ~~Persons~~
~~the~~ Persons labouring under gouty Complaints,
 or Ulcers
 were almost the only People who escaped the
 Plague when it raged in London. The Rea-
 son of this may easily be explained by the
~~same way~~ from what we have just now
 advanced: for it is no less a Law in Impression
 than Perception, that but One can be
 made upon a Sense at Once. it would be
 easy to show of how great Application this
 Law is in Physics. — I grant indeed that
 if the Impressions we before spoke of, are
 intermitted for any considerable time, they
 act as strongly as ever, when applied again to
 the Body. This may easily be accounted for,

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Nor does it in the least affect the Force of
these Analogies. for we must remember
that they are applied ^{only} to One of the Organs of
Sense, & are never so violent as to induce any
Commotions in the System, whereas the Stimulus of Contagion is so violent as to affect
the whole System with an Impression so
strong as to leave the Nerves callous if I may
be allowed the Expression to every future
Impression of a like nature.

5.th Another Question occurs here, & that is,
how is it that One part of the Body should be
so uniformly affected with the same Contagion?
— I think a probable Answer may be offered

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to this. ~~But~~ we have before presumed that
Contagious are in their Natures Specifically
different. it is universally allowed that there
are Specific Stimuli in Medicine. the Operation
of Mercury can be no ways explained but by
supposing the Salivary Glands to be Specifically
affected by it. Unless we admit this Doctrine
I know not how we shall explain the
Reason why a few Drops of Antimonial Wine
should excite such a Sickness in the Stomach,
It yet excite no Sensations on the Tongue or
even on the Eye itself; or why a large Quan-
-tity of Salt may be taken into the Stomach
without producing any Sickness, & yet a few

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Grains of it excite the most uneasy or
 painful sensations, when applied to the
 Tongue, or dropped into the eye. all this
 seems to depend upon that wonderful
 manner in which the Sense of Touch is divers-
 itified throughout every part of the Body.

— Now when we admit these Propositions we
 may easily comprehend the Reason why the
 same parts of the Body are so uniformly
 affected by the same Contagions, such as the
 Skin in the Small pox - the Lungs, ^{so generally} in the
 Measles, & the ~~Liver~~ ^{Gall: bladder} in the Bilious Fever.

6.th It is a Law in our System that all stimuli
 excite Inflammation when applied to the

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Body, & that this Inflammation is always
 proportioned to the greater or lesser Sensibili-
 -lity of the part affected. The Tendency of most
 Inflammations when in a ~~pretty~~ high Degree
 is to ~~gang~~ Suppuration or Gangrene & these
 are always brought on sooner or later ac-
 -cording to the violence of the Stimuli applied. Do
 not all Contagions therefore act as stimuli
 on the Parts they affect? & do not the Gan-
 -groves & Suppurations which happen in
 all parts of the Body evidently show that an
 Inflammation has preceded? - I am not
 singular ~~in this~~ in this Opinion. The
 learned M: de Sauvages places the Pague
 itself among the Inflammatory Diseases.

* *Horologia* vol. II - page 363.

His words are "Morbus est Inflammatorius,
 "quod indicant ^{Ardor,} Sitis, Rubedo" - Dr. Sydenham
 we find treated it as such, & never failed
 to order Bleeding in its first Stages. in some
 Cases ^{of the Bilious Fever} however the Predisposition of the Patient &
 the Force of the Contagion cooperate in such a
 manner, as to induce an Atonia upon
 the whole system so suddenly, as that no
 marks of preceding Inflammation can be per-
 ceived. This is the most frequent Appearance
 of this Disease in the West India Islands. the
 Sedative power of the Contagion alone prevails
 in these Cases without any of the Stimulating.
 the Gangrenes then which occur so frequently

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in the more malignant States of $\frac{2}{4}$ Bilious
Fevers are the mere Consequence of Atonia,
It are not preceded by the usual Phenomena
of Inflammation. This is not a new Proposition in
Physic. the Gangrenes brought on by Cold
Compression ~~can~~ depend in like manner
upon the Force of the vessels being destroyed
& not upon the ordinary Effusions which
take place in those Inflammations which
end in Gangrene. This doctrine may be
still further illustrated by calling in the Analogy
of Poisons which produce their Effects so sud-
-denly. it is now universally agreed that their

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Operation is entirely confined to the Nerves, & yet
 how soon do we see all the Appearances of
 discolored blood - ~~Putrid~~ Petechia & Hemor-
 rhages to succeed their Action. This was long
 supposed to be owing to a Putrefaction of the
 Fluids, but can now be explained more ra-
 tionally by having Recourse to the ^{sudden} Atonia
 induced upon the Nervous System.

7th: a very natural Question arises here,
 & that is if we deny Putrefaction, taking place
 in the Fluids, in what Manner shall we
 account for the Propagation of the Disease?
 - to this I answer that I would by no
 means reject an Assimilation being present in

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the Body. This we must admit, nor is it any
way repugnant to the Doctrine we have
been endeavouring to ~~prove~~ establish, espe-
cially when we extend our Ideas of Assimilation.
- The Measles are no less contagious than the
Bilious Fever, & yet no One will pretend to say
there is the least Degree of Putrefaction attending
them. I grant indeed that there is a tendency
to a putrescent state in this Fever when it con-
tinues for a considerable time, merely from
the increased Heat & Friction, & from the
want of a fresh Supply of Aliment. But this
happens ~~in~~ likewise in Inflammatory
Fever, & ~~it~~ has no Connection with a putrid

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Ferment introduced into the blood. What I
have aimed chiefly to prove is, that the Disease
is seated in the nervous System, & that the Fluids
are affected only in ^{a secondary manner.} ~~consequence of this~~. it is of
Importance to establish this, as our Indications
of Cure hereafter will be entirely founded upon
it. -

8th Nothing now remains but to say a few
things concerning the Nature of the Contagion
and Miasmata which produce this Disease. but
as this Subject is still so very Obscure, & as it
has no immediate connection with the Doctrine
we have been advancing, we shall sum up
all we have to say upon it in a few words.

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From what has been said it appears that
 this Disease can never be produced without the
 Concurrence of some highly acrid irritating ~~cause~~
 matter introduced into the Constitution. This
 matter originally may be of an animal or
 vegetable Nature. we have Instances even of
 malignant Diseases being produced from both
 these causes. in what manner these substances
 are diversified so as to produce different Dis-
 eases is hard to tell. perhaps it may depend
 upon different changes induced upon them from
 the different Circumstances of Heat & Moisture
 operating upon them. in this state they are
 called Miasmata. when the Disease is propagated
 from one Body to another they are called

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Contagious.

It is now time to proceed to the Method of Cure.

The Indications in this Disease are

- I To abate the increased action of the vessels.
- II to obviate Debility.

To the 1st Indication belong

1st Bleeding - This is of the utmost consequence in ~~this Disease~~ the beginning of this Fever. all authors agree in the Propriety of this Remedy.

Dr. Hillary ~~recommends~~ recommends it in his Treatise upon the Diseases of Barbadoes. the Blood is sometimes covered with an inflam-
matory

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Coat when drawn in the first stage of the Dis-
 -ease. no limited Quantity of Blood can be
 fixed here. it must always depend upon the
 Age - Temperament - State of the Pulse &
 vis vitae of the Patient. - it is best to take
 but a small Quantity at ~~once~~^{first}. & repeat
 it afterwards if the Symptoms indicate it.

2^{ndly} Laxative Medicines are highly useful when
 the Bowels are constipated; but they should be
 of the most gentle nature. The Sal Glauberi
 seems to answer best for this purpose. it
 should be given in small Doses by which means
 it lies longer on the Stomach - is more cooling,
 & less apt to purge the Patient immoderately.
 3^{rdly} Cool Regimen. consisting in cool air

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2nd cold Drinks & 3rd ripe Fruits.

1st cool Air. There is not a greater Error in Modern Practice than keeping Patients too hot in Fevers, more especially in those we have been describing. Future Ages will be as much surprised at our Conduct in this Respect, as we are at the Folly & Madness of Asclepiades, who refused his Patients Drinks of all kinds in the first stages of Fevers. Both Practices proceeded from ~~equally~~ ^{equally erroneous} ~~Theories~~. The Sagacious Dr Sydenham first endeavoured to reform this Practice. We find him dwelling upon it thro all his writings. The amazing Success which has attended the new mode of Innovation, ^{for the small part,} seems to be owing to nothing else than the free use of cool

* Itiam amplo Conclavi tenendus, quo mul-
- tae et purum Aesum trahere possit, neque
multis vestimentis strangulandus, sed admodum
levibus tantum velandus est. Belus Lib: III Cap: 7.

(a) How far the cool air may be of service in
this ~~Disease~~ Fever, the following Case, communicated
to me by my very worthy & ingenious Dr. Hook Physician
to St. Thomas's Hospital, will sufficiently demonstrate.
- in returning from the Havannah after ² Reduction
of that place, a Soldier on Board of One of ² Trans-
- ports was seized with the Bilious Fever, & in spite
of all that could be done for him, the Disease ran
on to its last & worst stages. As he appeared to be

Regimen, & not to any Improvements made
in the Medicines commonly given in that Dis.

case, as my ~~very~~ ingenious Friend & Country-

man Dr. Ruston has fully demonstrated in

his Treatise lately published upon that subject.
[ca] bring in the Sentence on $\frac{2}{y}$ opposite side here. I
would therefore advise the Chamber win-

dows of Patients in the Bilious Fever, to be
kept constantly Open, & artificial Draughts

of air to be introduced into it occasionally.

- they should likewise let up as much as
possible, & be covered with nothing but the light-
est Bed Cloaths. It would be of use besides,

this to sprinkle the Floor of the Bed Chamber

every now & then with Water, or Vinegar, which

by evaporating would induce a grateful coolness

incurable, & began to grow offensive to the smell,
the Doctor ordered him to be brought, & laid

in order to
prevent his infecting the rest of the Crew, as he
took it for granted he could live only a few hours.
But to the great Surprise of the Doctor & every
One who saw him, in a little time ~~he~~ he began
to revive — he was soon able to set up — & in
a few days was perfectly recovered. I would be
[return to page 52nd - line 6th]

in the Room, the Heat of which should al-
ways be rather below than Above 60° of Fa-
renheit's Thermometer.

2nd Cold Drinks. Nothing can be more cruel, or
ill-judged than to deprive the poor miserable
Patients of that which they cry out so much
for. How many Instances have we of the
most remarkable Cures ~~of~~ being per-
formed by a Draught of cold water! Why
then do we oppose a Practice which Nature
indicates, & which Experience justifies? We
are ^{lately} informed, that the Practice of giving cold
Drinks in Malignant Fevers prevails so much
in Italy, that it is a very common thing among
the Physicians there to dissolve Ice in all the

* Si è visto nel nostro secolo le Febbri
ardenti e le putride ed altre maligne di-
pendenti da un humor crudo e indomabile,
ceder felicemente, e risolvervi sotto l'uso
dell' acqua gelata, non solo nel caldo clima
di Napoli, ma anche in altre parti ~~del~~
d'Italia, e in Bologna, dove io medesimo
ho veduto questo metodo perfettamente riuscire.

Osservazione sopra vajuolo irregolare
Del Michele Rosa p. 25.

Drinks they give their Patients, in order to give them an additional coolness*. Some Prudence however is necessary in the Administration of this Remedy. When the Inflammatory Diathesis prevails, in the Beginning of this Fever, to a pretty high Degree, cold Drinks may do mischief. Upon this Account it is best not to give them in large Quantities till the second or third Day of the Disease, or till we are sure from the sinking of the Pulse, & other Marks of Debility that the Inflammatory Diathesis is entirely removed.

3.^d Ripe Fruits - These are of the highest Use in all Fevers of this kind, not only because they are grateful to the Patient, but upon the Account of

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their cooling & laxative Qualities. the great Dr
Boerhaave first introduced them at the Risque
of his Reputation, & later Experience abundantly
confirms their Usefulness. it is worth observing
here how bountifully the Author of Nature has
provided those Countries, where these Fevers prevail
most, ~~the~~ with the most delicious Fruits which
are generally produced in that Season of the
Year, ~~too~~ when these Fevers are most Epidemic.

To the II general Indication belong
1. Preparations of the Back. This Medicine is
the Only one on which we can venture to place
any Dependence. the judicious Dr Sydenham
whose Practice ~~was~~ in febrile Diseases, can never
be too much admired, nor too closely followed by

* See Dr. Haen's Ratio Medendi vol 1. p 268

Physicians, was the first who ^{introduced} ~~gave~~ the use ⁵⁶
of the Bark in Malignant Fevers of all kinds.
Dr. Morton - Dr. Huxham - Sir John Pringle
& Dr. De Haen* all abound with Facts in con-
firmation of its ~~unparalleled~~ admirable virtues
in these cases. Each of these Authors recommend
it in the highest state of the Disease, & do not
confine its use to Remissions, which seldom or
never happen in those Fevers where it is most
indicated. - The Bark is generally supposed
to act in these cases as an Antisepetic. This
notion was introduced first from seeing its
Effects in preserving Bodies from Putrefaction.
But I ~~cannot~~ ^{cannot} believe it has
~~any~~ ^{any} analogous Operation
upon the ^{human} Body. I would therefore reject the

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" — Cardiac & Arterial Spasms Nor: —

~~See Suppression and its Effects.~~

2nd the use of acids. These in like manner have been given with a view of Obviating Putrefaction, & coagulating the Blood. But their immediate Operation is confined to the Stomach, from whence their Effects are extended to every part of the Body. They serve to brace up y^e System, & prove excellent cooling Medicines. The vitruolic acid is to be preferred to the Other Mineral Acids, as being less heating & more agreeable to the Stomach.

3rd The free use of wine. among all y^e Cordials which have been introduced into Medicine, there is none equal to this. it excites the vigour

* Diseases of the Army p. 322.

of the Sensorium, & promotes a due Distribution of the nervous Influence to every part of the Body. Of how great Use Wine is in the latter Stages of low malignant Fevers, Sir John Pringle has furnished us with some excellent Examples in his Observation on the Jail or Hospital Fever.

The best wine in these Cases is Port, or good Old Rhenish. The great Advantage of these Cordials is, that they revive & strengthen the Patient, without exciting any Heat or increasing the febrile Symptoms. The wine for the most part is given in too small Quantities to do Service.

pass on to page 66.th

* Treatise upon Fever & Infection. -

The use of Blisters in this Disease is ^{more} ~~rather~~
 ambiguous than the Exhibition of Vomits. How
 far they might prove of Service in its first stage
 I shall not pretend to say, as I have never
 seen them tried in the Beginning of the Disease.

Dr. Lind relates some remarkable Instances
 of their Unfulness in the Beginning of the
 Yellow Fever which was brought from Ame-
 rica into England during the late war.
 But I am apt to think the Disease was
 so changed from what it was originally, that
 it would not do to apply this Practice universally
 to all Climates. in the second stage of the
 Disease we have marked but they are evidently

* Diseases of the Army p: 320.

harmful, not by dissolving the Blood, & thereby
increasing its putrid Diathesis as was formerly
supposed, but by increasing the Atonia of
the vessels, & thereby ^{inducing} ~~causing~~ Gangrenes
in the places where they are applied. Sir
John Pringle mentions a Case of a Soldier
which confirms this, who was notwithstanding
relieved by a plentiful use of $\frac{1}{2}$ Bark.*
- It is much to be wished that the proper
use of Blisters was fully ascertained in this
as well as in other malignant Fevers. We
have too few Facts in Medicine to speak with
any Degree of Confidence either in their Favour
or against them. For my part I must

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acknowledge my want of Experience and
Observation upon this Head. —

Thus have I finished what I intended
in this Essay. Had I entered into a more
minute Discussion of all those Questions, to which
this Subject would naturally have led me,
this Dissertation would have far exceeded the
Limits I proposed. Happy shall I esteem
myself, if any thing I have hinted will tend
to throw any new Light upon the Nature
of the Disease, or lead to a more successful
Treatment of it! — But if I have failed in
this ^{Attempt}, I shall take Shelter under the words
of
I say "magnis lat est voluipse"
Finis.

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There are two Other Remedies which are sometimes
 ordered in this Disease which do not properly come
 under either of the Heads we have been treating
 off, viz: counts & History. we shall conclude w:
 a few Observations upon them. -

Dr. Hillary in his Treatise upon the Diseases of
 Barbadoes speaks against the former of these &
 as he was a Practitioner of considerable note
 in that Island, his Practice has been pretty generally
 followed by most of Physicians. There is nothing
 perhaps that has tended more to retard the
 Progress of Medicine than preconceived Hypotheses
 concerning the Causes of Diseases, & however much
 Practitioners may declaim against Theory, there
 are few who ever prescribe any thing without laying

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down some Indications of Cure. it is highly
 probable that Dr. Hillary, & those who have follow-
 ed his Practice have been misled by this great
 Source of Error in Medicine. I have conversed with
 several Gentlemen who have seen the Disease
 in its worst Stages in the West India Islands who
 have spoke very differently of the Wert of Admi-
 nistering Vomits. Dr. George Taylor a Gentleman
 who has practised Physic wth great Success for many
 Years at St. Christophers, assured me that he
 had never lost a Patient in the Violent Fever to
 whom he had given a Vomit, provided he was
 called on the first or second day of the Disease: the
 Emetic he generally used, was a Solution of Tartar
 Emetic in water which he gave in such Doses as to

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excite a gentle vomiting without straining the
 Patient violently. Since I heard this, Dr. Keck
 informed me, that during the Siege of Martinico
 & the Savannah where he attended his Majesty's
 Troops during the late war, he had given Vomits
 with the utmost success, & that, in the most malig-
 nant Degrees of this Fever his only Dependence was
 placed upon them. I would not however recom-
 mend Vomits with a view of evacuating putrid
 Lordes from the Prima via which according to
 some act as Lenient to the Disease. We before proved
 that this had little or no share in keeping up the
 Complaints of the Patient. They seem rather to produce
 their Effects by bringing on a Determination toward the
 Skin, & thereby Obviating the febrile Process induced
 upon its Surface. There are cases however in which

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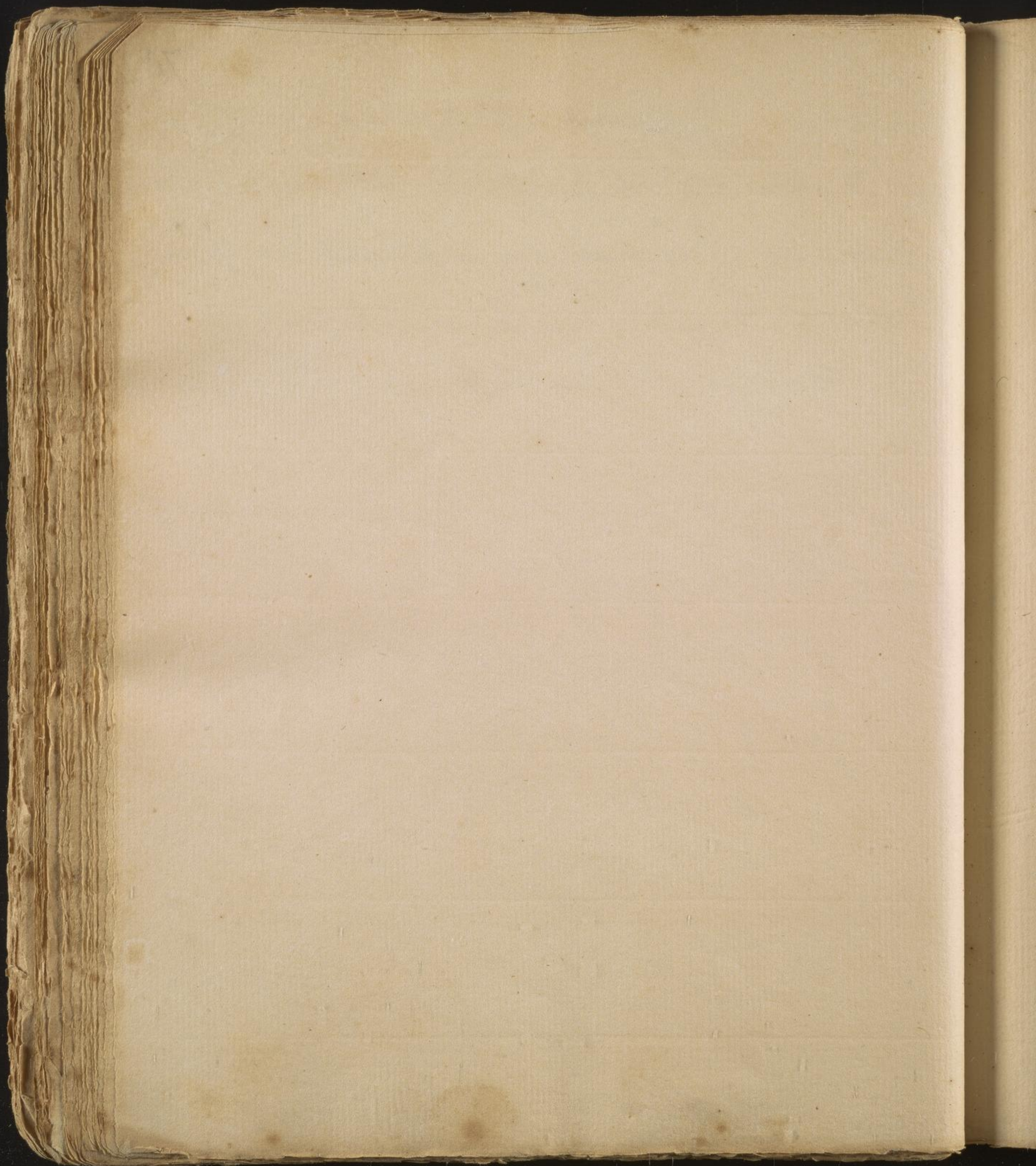
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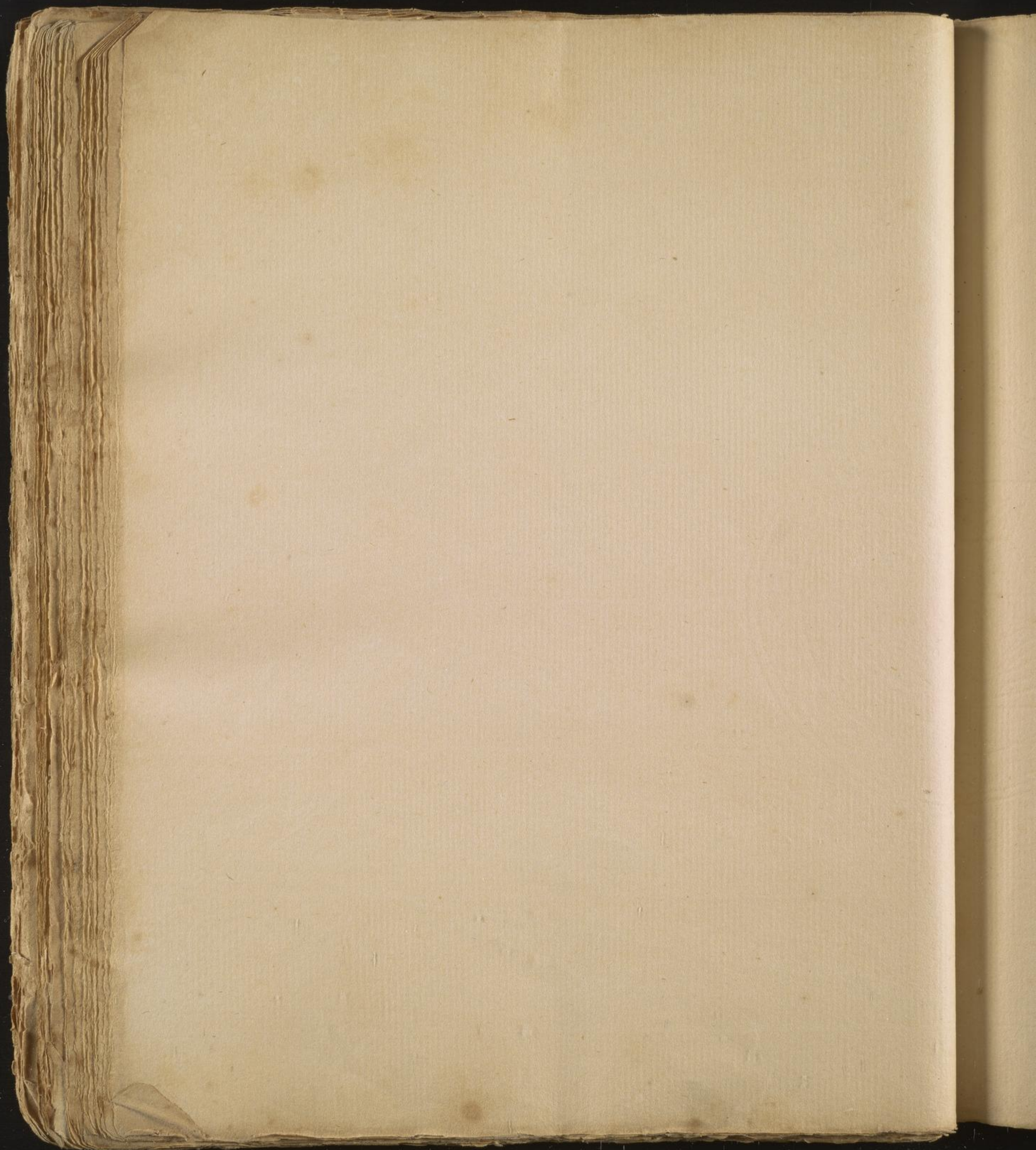
The Disease is attended with such a Degree of vomiting
 that Emetics are less necessary, but on ^{the} contrary
 antiemetic Remedies are indicated such as
 Plaster of Venice Treacle applied to ^{the} Region
 of the Stomach, & plentiful Doses of Riverius mix-
 -ture. —

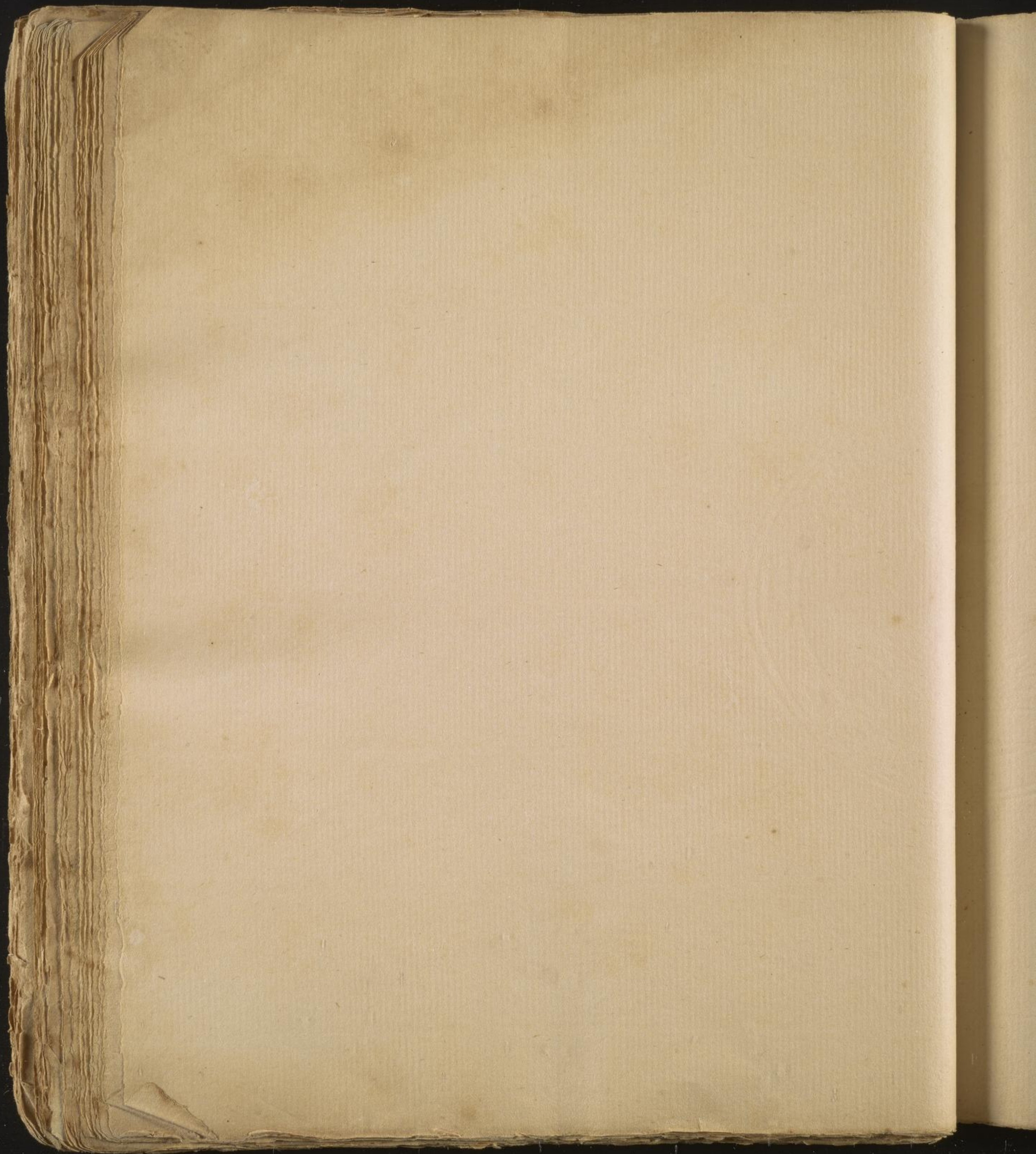
The use of Blisters in this Disease &c. &c.
 [return back to page 63^d].

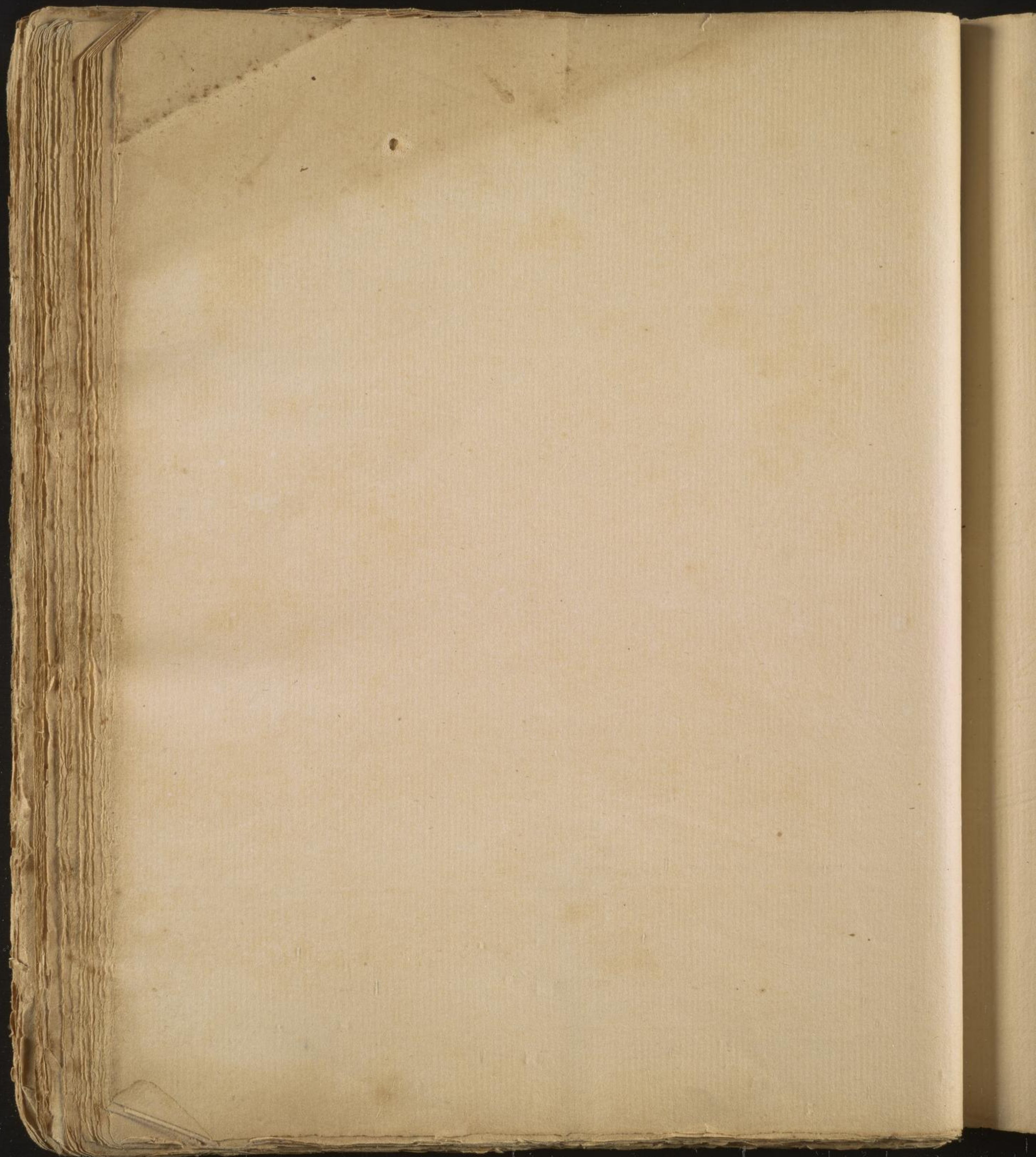
The first of these is a letter to the
author of the book, in which he
states that he has read it with
great interest, and that he is
glad to hear that it has been
published. He also mentions that
he has been thinking of writing
a book on the same subject, but
that he has been so busy that he
has not had time to do so. He
closes the letter with a friendly
greeting and a promise to write
again soon.

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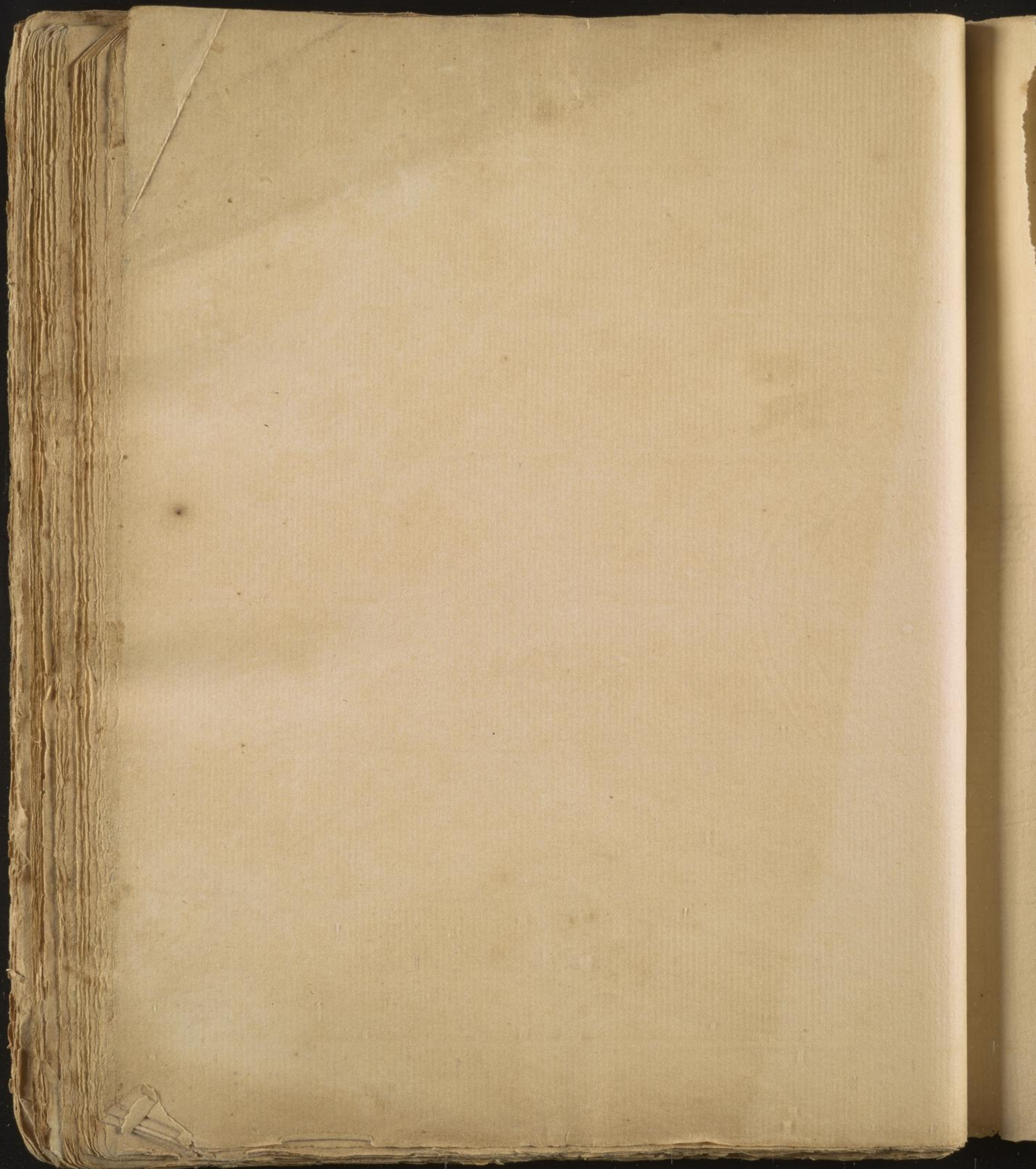








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